

**UNIVERSITY OF KENTUCKY
APPLICATION FOR NEW COURSE**

1. Submitted by Dentistry Date May 9, 2002
College of _____

Department/Division offering Oral Health Practice
course _____

2. Proposed designation and Bulletin description of this course

a. Prefix and Number RSD 835 b. Title* Advanced Esthetics in Restorative Dentistry

*NOTE: If the title is longer than 24 characters (including spaces), write
A sensible title (not exceeding 24 characters) for use on transcripts

Adv Esth in Rest Dent

c. Lecture/Discussion hours per week 16 d. Laboratory hours per week 27

e. Studio hours per week _____ f. Credits 2

g. Course description

This course is designed to introduce current concepts in esthetic restorative dentistry to undergraduate dental students in their 3rd year. The techniques presented will build upon previously developed restorative didactic and clinical knowledge, but incorporate additional dental techniques and materials developed specifically for esthetic dentistry. Current dental materials being used by this discipline will be discussed as they apply to specific topics.

h. Prerequisites (if any)

RSD 810, 812, 814, 816, 818, 821, 822, 823/825, 824, 826 and 827

i. May be repeated to a maximum of N/A (if applicable)

4. To be cross-listed as N/A
Prefix and Number _____ Signature, Chairman, cross-listing department _____

5. Effective Date Fall 2003 (semester and year)

6. Course to be offered Fall Spring Summer

7. Will the course be offered each year? Yes No
s

(Explain if not annually)

8. Why is this course needed?

The current curriculum does not include didactics and/or clinical sessions specifically dedicated to esthetic dentistry beyond the most basic restorative procedures. Feedback from recent graduates of UKCD place a high demand on these techniques once they enter practice and highly suggest this area be added to the present curriculum.

9. a. By whom will the course be taught? Dr. Paul Osborne, Dr. Robert Kovarik

b. Are facilities for teaching the course now available? Yes No
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If not, what plans have been made for providing them?

10. What enrollment may be reasonably anticipated? 3rd year class

11. Will this course serve students in the Department primarily? Yes No

Will it be of service to a significant number of students outside the Department?
If so, explain. Yes No

Will the course serve as a University Studies Program course? Yes No

If yes, under what Area? _____

12. Check the category most applicable to this course

traditional; offered in corresponding departments elsewhere;

relatively new, now being widely established

not yet to be found in many (or any) other universities

13. Is this course part of a proposed new program: Yes No
s

If yes, which? _____

14. Will adding this course change the degree requirements in one or more programs? Yes No
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If yes, explain the change(s) below

This course will be a required course for the 3rd year dental students.

15. Attach a list of the major teaching objectives of the proposed course and outline and/or reference list to be used.

16. If the course is a 100-200 level course, please submit evidence (e.g., correspondence) that the Community College System has been consulted.
17. Within the Department, who should be contacted for further information about the proposed course?

Nam e	Dr. Paul Osborne	Phone Extension	323. 4635
	_____		_____

*NOTE: Approval of this course will constitute approval of the program change unless other program modifications are proposed.

ACTION OTHER THAN APPROVAL

- RSD 835 -
ADVANCED ESTHETICS IN
RESTORATIVE DENTISTRY

University of Kentucky College of Dentistry
Department of Oral Health Practice
Division of Operative Dentistry

Purpose

The purpose of this course is to introduce an evidence-based, interdisciplinary approach to developing an esthetic treatment plan and to gain experience with advanced esthetic procedures.

The demand for cosmetic dentistry in the marketplace has led continued growth in both direct and indirect esthetic restorative systems. It presents a challenge to the practitioner to stay abreast of the latest techniques and materials in order to provide patients with the best esthetic restorative options. Although the emphasis on improving esthetics has recently focused on indirect procedures such as porcelain veneers and resin or ceramic inlays/crowns, the direct resin systems offer the students a conservative, versatile, and personally rewarding method of treating the dental patient. Improved direct resin materials for use in both the anterior and posterior teeth along with predictable placement techniques provide the students with the opportunity to consistently achieve esthetic results in a cost-effective manner.

This course will cover the principles of esthetics, vital and non-vital bleaching treatment and the newer resin systems available for both direct and indirect restoration of anterior and posterior teeth. The latest in direct resin systems and methods to efficiently place these materials will be highlighted. By using proper color matching and optical blending, students will learn how to produce restorations that esthetically defy detection. Procedures will be presented that minimize finishing time for the restorations and shorten chair time for the patient. Students will also learn efficient methods of preparing and cementing indirect resin along with techniques to conservatively restore posterior Class II lesions with direct resin materials.

Students will have the opportunity to practice the restorative techniques in a pre-clinic laboratory setting. Procedures will include closing a diastema and Class IV restoration. Students will also have the opportunity to practice preparation of an indirect

resin composite onlay, preparation and restoration of a Class II cavity with a predictable method of achieving a tight contact and esthetic restoration with direct resin composite.

Goals / Competencies

- 1.02 Manage the care of patients with critical and reflective consideration of the potential for positive and negative consequences.
- 2.04 Critically evaluate published clinical and basic science literature and apply the information to manage the oral health of the patient.
- 3.01 Explain and discuss findings, diagnosis and treatment options with the patient (and guardian if appropriate) and obtain informed consent for the delivery of the mutually accepted treatment.
- 3.03 Educate and motivate patients and staff using appropriate communication techniques.
- 3.04 Prepare and deliver a presentation group.
- 3.05 Prepare and deliver a case (patient) presentation.
- 4.05 Select and use barrier techniques and sterilization and disinfection procedures consistent with OSHA guidelines to prevent the transmission of infectious diseases.
- 6.04 Assess patient expectations and goals for dental care.
- 8.01 Modify planned treatment based upon the patient's physical, emotional, mental, financial or attitudinal state or condition, as appropriate.
- 8.02 Integrate appropriate referrals into the treatment plan.
- 13.02 Determine the etiologies of patient's periodontal problems.
- 14.09 Assess and appropriately refer patients with conditions requiring the care of a specialist.
- 17.03 Assess those conditions that should be managed by specialist and discuss these conditions with the patient and specialist.
- 20.01 Select and use appropriate dental biomaterials in the treatment of patients needing restorations and/or replacement of teeth.
- 20.02 Prepare teeth and residual ridges to support and retain dental restorations and fixed and removable prosthesis.

- 20.03 Fabricate and place restorations and prostheses for dentate, partially edentulous, and edentulous patients.
- 20.04 Communicate effectively in directing the fabrication of restoration and prostheses by dental laboratory personnel.
- 20.06 Assess patients' diagnostic data and refer patients with treatment needs beyond the scope of his or her education, experience and expertise.
- 20.08 Evaluate and document the results of restorative and prosthodontic treatment.

Outcomes

By the end of this course, the dental student will be able to:

1. Demonstrate an understanding of the principles of esthetic dentistry related to size, proportion and color, and apply those principles to appropriate clinical cases and predict expected results to patients prior to actual procedures.
2. Realize the importance of appropriate pretreatment diagnostics and patient communication skills.
3. Select the components of modern adhesive dentistry bonding systems and their application to tooth structure.
4. Demonstrate proper manipulation of bonding systems and appropriate case isolation techniques.
5. Select the correct resin materials and techniques for the treatment of diastema, class IV anterior teeth, Class II posterior teeth and direct resin veneers.
6. Demonstrate knowledge of indirect resin composite restorative techniques and the associated bonding/cementation systems appropriate to those techniques and materials.
7. Diagnose and treat discolored teeth using either internal or external bleaching techniques to improve patient esthetics as well as associated microabrasion procedures.
8. Identify the importance of interdisciplinary approach as an important part of esthetic treatment planning.
9. Select, review and prepare an adequate presentation to a group, either case presentation or literature review.

Learning Resources

- a. Handouts and supplemental readings may be given throughout the course.
- b. Required laboratory/clinical supplies:
Operative tray, metal maniquin, dentoform, post and various supplies required for each particular laboratory session.

Evaluation Methods Overview

a. Grading Scale:

To be determined by the course director using the College Grading Policy of A, B+, B, C, E.

b. Evaluation Components:

- Grading for the Course:

The grade will be based on completion of all preclinical laboratory exercises, one practical preclinical examination and a final written examination. If a written exam is missed, it may be retaken only at the discretion of the course director.

Preclinical projects completed (on time):	25%
Final Practical Examination	25%
Final written exam	50%

All pre-clinical projects will be evaluated by a bay instructor. If satisfactorily completed and signed off by the instructor, then the student will receive 100% for the preclinical project.

If the student does not finish all pre-clinical projects by the end of the one-week block course sessions, 10 percentage points per day will be taken off per each project from the final course grade.

If the student receives a failing grade during the preclinical session, they must redo the project and turn it in to the course director by the next lab session (that would be the following day in the block course format).

Required remediation for any phase of this course will be at the discretion of the Course Director and may be negotiated directly between the student and the Course Director.

This course is required for graduation. If a failing grade is earned, the course must be remediated or repeated the next academic year.

c. Attendance Policy:

Attendance is expected for the duration of lectures and laboratory sessions. Attendance may be taken during lecture and laboratory sessions.

Each laboratory project will be graded by the end of the session. Each unexcused absence during the laboratory session will result in an incomplete grade for the project and a possible reduction of 10% per day in the final course grade as previously outlined. Early departures without bay instructor or Course Director permission will result in a 5 points deduction per incident from the final grade.

Excused absences will not affect the grade but the student is responsible to make up the missed work, learn the information and present the final project at the beginning of the following session.

Refer to The University of Kentucky “*College of Dentistry Student Handbook*” and “*Student Rights and Responsibilities*” for rulings regarding excused and unexcused absences.

d. Missed/ Make-up exam policy:

Any make-up of a missed examination due to an excused absence must be arranged with the Course Director. There will be no make-up of examinations with an unexcused absence.

Policy and procedures

a. Office Hours and Contacting Faculty:

Course faculty will be available during the scheduled laboratory sessions. All laboratory projects are expected to be completed during assigned preclinical sessions. This course will benefit from the assistance of part-time faculty who may not be at the school for each session. It is therefore imperative that all work be completed and signed off on time.

Faculty will be involved in a conference immediately following each lecture session for 15-20 minutes. Students are expected to use this time to set up for the preclinical session and be prepared to begin work promptly after the faculty conference.

b. Changing Class Times/Exams:

Given the block format of this course, flexibility in changing any lectures and/or preclinical sessions will be extremely limited.

c. Remediation:

Students requiring remediation should coordinate that activity with the Office of Academic Affairs and the Course Director.

d. Cheating and Plagiarism:

All activities in the course are conducted under the College of Dentistry Code of the Professional and Academic Responsibility. The College has high expectations of each student concerning their professional and academic responsibilities including self-governance. If there is any question about expected standards of behavior, it is the student's responsibility to discuss and clarify these questions with the course director. A reference to this information may be found in the College of Dentistry Student Handbook.

Cheating on written exams, stealing, dishonest practices in completing preclinical projects, forging signatures and initials, and aiding or endorsing cheating by others constitute misconduct. Any student found guilty of such unethical behavior shall receive a failing grade for this course.

Each preclinical project must be completed solely by the individual student. Assistance may be gained by guidance from the respective bay instructor or from a tutor assigned officially through the Office of Academic Affairs and approved by the Course Director. Collaborative discussions with fellow students are encouraged, however the actual project must be completed solely by the individual student. Violation of the above by having any work accomplished by another person or upperclassman constitutes a violation of the honor code. Dismissal from the course with an failing grade may be expected for such unethical behavior.

All written and practical examinations have to be completed independently without any assistance. All written examinations are restricted information and are not given out for review or study.